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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/952,990 04/09/98 LEIJON M 70556-2/8238

MMC1/0601

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EXAMINER

ENAD, E

ART UNIT	PAPER NUMBER
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2834

DATE MAILED:

06/01/01

21

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks**

<b>Office Action Summary</b>	Application No. <b>08/952,990</b>	Applicant(s) <b>Leijon et al.</b>
	Examiner <b>Enad, Elvin</b>	Art Unit <b>2834</b>

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1)  Responsive to communication(s) filed on Mar 16, 2001.

2a)  This action is FINAL.      2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

#### Disposition of Claims

4)  Claim(s) 1, 2, 5-8, 11, 13, 15-19, 21-43, and 45-55 is/are pending in the application.

4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 1, 2, 5-8, 11, 13, 15-19, 21-43, and 45-55 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

11)  The proposed drawing correction filed on \_\_\_\_\_ is: a)  approved b)  disapproved.

12)  The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. § 119

13)  Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a)  All b)  Some\* c)  None of:

1.  Certified copies of the priority documents have been received.
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\*See the attached detailed Office action for a list of the certified copies not received.

14)  Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

#### Attachment(s)

15)  Notice of References Cited (PTO-892)

16)  Notice of Draftsperson's Patent Drawing Review (PTO-948)

17)  Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_

18)  Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_

19)  Notice of Informal Patent Application (PTO-152)

20)  Other: \_\_\_\_\_

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## **DETAILED ACTION**

### ***Continued Prosecution Application***

1. The request filed on March 16, 2001, for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/952,990 is acceptable and a CPA has been established. An action on the CPA follows.

### ***Information Disclosure Statement***

2. Receipt is acknowledged of the information disclosure statement papers filed on March 16, 2001. The papers have been placed in the application file. A signed copy of the IDS will be provided when application is allowed.

### ***Claim Rejections - 35 USC § 112***

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 16,24,39,46,47 and 52 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claim 16, applicant's original disclosure does not provide support for the first layer being in "electrical contact with and operative at substantially the same potential as the

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conductor". Moreover, in claim 24, applicant's original disclosure does not provide support for the outer semiconducting layer being "cut off into a number of parts which are separately connected to ground potential".

In claims 46 and 47, applicant's original disclosure does not provide support for the limitations such that: the machine is operable at "100% overload for two hours", the cover operable to render the cable "free of sensible and winding loss".

In claims 39 and 52, applicant's original disclosure does not provide support for a "magnetically permeable" electric field confining covering surrounding the conductor.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1,2,5-8,11 and 13 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicant disclosed prior art Figures 1-3 in view of Shildneck (USP 3,014,139) and Evans (USP 3,602,636).

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Applicant disclosed prior arts, in particular figure 2 discloses the claimed invention except for a teaching of having a flexible electrical cable comprised of a plurality of an uninsulated stranded conductor and an insulated stranded conductor.

Shildneck discloses an improved continuous winding for an electromagnetic device such as a large turbine-driven generator, the winding employing an improved form of flexible insulated conductor for the laminated armature core of the dynamo electric machine.

Evans teaches that it is well known to form a cable with some insulated conductors (12) and a minority of uninsulated conductors (14). The uninsulated conductors for a neutral or ground for the cable.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have formed the flexible cable of Shildneck with some insulated and uninsulated conductors as disclosed by Evans, to the device as illustrated in the prior art figures, in order to provide a cable with a neutral conductor.

7. Claims 15-19,21-28,32-43 and 45-55 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicant disclosed prior art Figures 1-3 in view of Shildneck (USP 3,014,139) and Evans (USP 3,602,636) and further in view of Elton et al. (USP 5,036,165).

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Applicant disclosed prior art figure 2, Shildneck and Evans disclose the claimed invention except for utilizing a cable in the electrical machine having conductors with semiconducting properties.

Elton et al. teach that it is known to have an electrical cable comprising an internal grading layer of semi-conducting pyrolyzed glass fiber layer in electrical contact with the cable conductor. In another form of embodiment, Elton et al. teach an electrical cable provided with an exterior layer of internal grading layer of semi-conducting pyrolyzed glass fiber layer in contact with an exterior cable insulator with a predetermined reference potential.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the cable assembly of Elton et al. to the device as disclosed in prior art figure 2 and Shildneck since such a modification according to Elton et al. would provide a conductor which prohibits the development of corona discharge.

8. In regard to forming the semiconducting layer with the same coefficient of thermal expansion as that of the insulation layer, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have formed these layers with similar coefficients since it was known in the art that the expansion rate of the two layers would be the same and this is desirable in order to prevent cracking of the insulation and wear between the two.

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9. Claims 29-31 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicant disclosed prior art Figures 1-3 in view of Shildneck (USP 3,014,139), Evans (USP 3,602,636), Elton et al. (USP 5,036,165) and further in view of German Patent Specification No. 468,827.

Applicant Disclosed Prior Art Figure 2 and Elton et al. disclose the claimed invention except that they do not disclose having a stator comprising slot(s) consisting of a number of cylindrical openings separated by narrow waist parts.

German Patent Specification No. 468,827 teaches that it is known to have a stator having cylindrical opening winding slots with decreasing radius in order to accommodate the winding conductors having varying diameters.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the stator slot arrangement as taught by German Patent Specification No. 468,827 and to have modified the device as discloses by Applicant Disclosed Prior Art Figure 2 since such an arrangement according to column 1, lines 25-29 of German Patent Specification No. 468,827 would accommodate the conductors having varying diameters.

### **Conclusion**

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elvin Enad whose telephone number is (703) 308-7619. The examiner can normally be reached on Monday-Friday from 8:00AM to 4:00PM.

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11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez, can be reached on (703) 308-1371. The fax phone number for this Tech Center is (703) 305-3431(32).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.



Elvin Enad  
Primary Examiner  
Art Unit 2834  
05.28.2001